

STATOTHR

Approved For Release 2002/09/03 : CIA-RDP78B04747A001200050001-3

DIGITAL READOUT COUNTERS

STATOTHR	
1	Shipments on the current contract are complete and items were shipped as follows:
—	a) One 2-axis counter shipped Sept. 30, 1964 b) One 2-axis counter shipped Oct. 30, 1964 c) Spare circuit boards shipped October 30, 1964 d) One 2-axis counter, shipped Nov. 30, 1964 e) One 4-axis counter shipped Dec. 30, 1964 f) Spare circuit boards for the 4-axis, shipped Dec. 30, 1964.
STATOTHR STATOTHR	changes found necessary last October. The retrofit of the circuit board changes and the control panel changes will be completed next week and the counter is scheduled for shipment Friday, Jan. 15, 1965.
STATOTHR STATOTHR	The only retrofit outstanding now is to the counter in your shop for the machine. will accomplish the rework as soon as you can send the counter to him.
STATOTHR	submitted a quote on two counters which include the punch and coupler. The counters will provide a dual capability for either on-line computer operation or off-line IBM punch card production. One nice feature of the proposed dual capability is that if the synchronizer chassis of the counter should go out of order, the operator can switch over from on-line to punch card operation and continue his work.
STATOTHR STATOTHR	There have only been some minor procedural changes such as changing the fiscal year to coincide with the calender year.
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Approved For	Release 2002/09/0	3 : CIA-RDP78E	804747A00120	0050001-3	25
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odified to the	uipment is being required standar a Government. I arato solonoid b	The cost of i	policying the	to be Synchronize Control per	25
incorporation	r, a total of a s the new solon it, it was deter	old hold swill wheat that it	chos. On o	TELLI VALLE OF THE STREET	1200

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25X1A 25X1A 25X1A 4. It is requested that a requisition be written for modifying 6 each Control Panels at at each to eac

Approved For Release 2002/09/03 : CIA-RDP78B04747A001200050001-3

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25X1A	Subject: Shipment of Existing and Modifications of Existing Equipment Namifactured by	
25X1A	Equipment statuted and a	
25X1A 25X1A 25X1A	ero being held at swelting this action, the fifth is new at EFIC, to be returned to and the winth will be returned to when the first modified panel is received at NFIC.	
25X1A ,	5. discussed this seties with the contracting office at station 954 and agreement has been reached on handling the modification in the manner described above.	
	6. The modified control penals are consigned as follows:	
	3 - PAS 2 - PID 1 - TID	
1	Accounts of these divisions should be charged with the cost of modification.	
25X1A	*	
	Distribution: Oris. & 1 - Addresses 1 - P/G 1 - PID	

SEGNET

October 23, 1964

DIGITAL READOUT COUNTERS

STATOTHR	
STATOTHR	The Digital Resdout Counters convert measuring engine readouts to computer inputs. Three 2-axis counters, one 4-axis counter, and spare boards are presently on order from
STATOTHR	The first 2-axis system of this order was shipped September 30 and there were some problems with the computer interface. cleared up all the interface problems by trouble shooting in your shop on Tuesday, October
STATOTHR	boards whichaccomplished on the delivered unit on
STATOTHR STATOTHR STATOTHR	process at the factory. The two 2-axis counters delivered on a provious contract will also need to be changed. will send the other to for the change.
STATOTHR	In operating the counter with the new stereo ship comparator it was found that the "READOUT CHARACTERS" command switches on the control penal of the counter had to be held in by the operator until the transmission to the computer was complete. If the operator did not hold in the switch for the required two or three seconds, an error would occur. This can be restified by using selencid hold-down switches which will be released at the end of transmission will change ever all the control panels to the new switches.
STATOTHR	The first 2-axis system already delivered is to be sent back to for the switch change. The second 2-axis system will be completed next week and is scheduled for shipment Friday. October 30. It will include the circuit changes noted above and the solenoid hold-down switches.
STATOTHR	The third 2-axis system is ready to start check out and the 4-axis system is in final assembly. The spare circuit boards are complete and will be shipped next week. Circuit boards for all units are complete. Now that both the counter input interface and output interface have been tested and correct performance established can schedule fire delivery dates for the balance of the units. He is writing a contract letter requesting this delivery change.

	Digital Readout Counters	-2- Octob	er 23, 1994	
STATOTHR				
STATOTHR	empert the compa	e enother 2-axis or rator from a punch		
STATOTHR	line capability.	wents to F	rang-pa pagk ab	
STATOTHR	by adding a card-punch cou design. The belance of th ce and interchangeable wit on order and already deliv	pler to the present a counter system w h the 2-axis count wered.	: ?-exis counter ill be the ears ers presently	
STATOTHR	The punch coupler will have operator can elect to treat to operate the ISM card produced the punch coupler. Separat being used. In ordinarra compatability, he said card punch.	meh and typewriter seeds to kn	In order to	
STATOTHR				

September 24, 1964

STATOTHR

DIGITAL READOUT COUNTERS

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On the contract for the three 2-axis counters, the first unit is complete and tested and ready for final tests by recording the output on magnetic tape.

The second unit is wired except for the control panel which is in process. Wiring on the third unit is just starting. All the circuit boards are complete including the spares and are being tested in the first unit. On the 4-axis unit, the engineering is complete but manufacturing has not started.

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The cable length information has been received by the 2-axis units the cables are various lengths from 18 in. to 3 ft as required for stacking the counters. For the 4-axis unit the cables will be 15 ft long.

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	had some interface difficulty when he hooked
up the	reading head, the counter delivered contract, and the dataphones for transmission
to the computer	. The original problem with the
count pulse che	racteristics has apparently been resolved. measured the pulse shape and sent a diagram
	hough it looks to me like a very poor pulse
coming out of t	he reading head says ave any trouble counting it.

The problem presently is at the interface between the counter and the dataphone. sent two datahas been testing the first 2-axis quickly found (as had phones to unit with them. in his work) that it was necessary to jumper the remote control lead (RC pin 20) and the remote release lead (RR pin 19) in the counter connector to the dataphone cable. No other changes were needed and the remaining trouble appears to be in the interconnection between the transmitting dataphone and the receiving dataphone. When the chassis of the two dataphones were grounded together, the counter pulses out of the

Digital Readout Counters

September 24, 1964

	receiving dataphone looked good dataphone chassis are not grown noise modulation appears on the scope. It is possible the result of the oscilloscope grothis out by making magnetic rethe magnetic recordings today, an answer tomorrow, Friday.	a transmission as observed by
STATOTHR	and the first of the control of the	might have to resort to
STATOTHR [[]	thought that magnetic recording to trouble	shoot the installation at his
<u> </u>	 Shop Question and the control of the c	
STATOTHR		

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STATOTHR STATOTHR STATOTHR	and g	ration: et bid figure one (1) unit	on replacing 5 in DC will be	readout swit	tches on each change; one	unit of item (1) unit now a	t
STATOTHR STATOTHR	deliv	returned to	for change, will be change	then re-ship	predicto DC: t	per control	not yet panet
STATOTHR STATOTHR	for 5	systems; or	for the	Work.	· · · · · · · · · · · · · · · · · · ·		ender, merer in —in ender in ender
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21 August 1964

	MEMORANDUM FOR: Assistant for Administration
25X1A	ATTENTION :
25X1A	SUBJECT : Change of Delivery Point for Equipment being Manufactured by under Contracts
	MENCE: A AND AND AND
0EV4A	
25X1A 25X1A	1. The digital readout equipment being manufactured by
25X1A	under contracts nas been designated
25X1A	for shipment directly to
25X1A	in the comparators being built by under contracts
25X1A	
25X1A	2. In view of the revised delivery schedule for the
25X1A	chip comparators and the recent check out problems of the equipment, it is requested that the designated delivery
25X1A	equipment be changed to the
25X1A	Assess washings for transchiment to This is considered
25X1A	necessary to permit acceptance testing of the equipment prior to shipping to for incorporating into their equipment.
25X1A	to for incorporating into their equipment.
	3. It is important that action be taken on this matter as soon as
25X1A	possible so that is notified prior to the first shipment scheduled for the end of August.
	· [
\ <u></u>	
25X1A	
	Distribution: Orig. + 1 - Addressee
25X1	l - Contract Folder
	1- Chrono File (21 August 1964)
25X1A	NPIC/P&DS/DB (21 August 1964)

SECRE



		Approved For Release 2002/09/03 : \$\frac{\(\text{Fig. RDP78B04747A001200050001-3}}{\(\text{Time Proved For Release 2002/09/03 : }\text{Fig. RDP78B04747A001200050001-3} \)
		STATOTHE
		August 17, 1964
	(A) 6	DIGITAL READOUT COUNTERS
TAT	OTHR	
TAT	OTHR	There is some confusion as to which Model Counter is to provide on the current order. There were two models made on the previous order. They were:
		Previous Order for Two 2-axis Counters
STAT	TOTHR	1. One each One each Two each Counter with input amplifier,
	OTHR OTHR	with 5-volt lamp power output connector, and with a multipin output connector for for the sensing head.
FAT	OTHR	2. One each One each Synchronizer Two each Counter with input amplifier
STAT	OTHR	for the sensing head and with no extra power output connectors.
		The Present Contract for Three 2-axis Counters
STAT	TOTHR	One each Control Panel One each Synchronizer
STA ⁻	TOTHR	Two each Counter with input amplifier for the sensing head and with no extra power output connectors.
STAT	FOTHR	This is what is being built and this is what John requires, however, the contract calls for counters. A contract change is required and I understand John is preparing to issue a change.
TAT	TOTHR TOTHR TOTHR	The present contract for one 4-axis counter is denoted the with input amplifier, with 5-volt lamp power connector, and with a multipin connector for amplifier power for the head. The Model C is the same as the Model A but is configured differently due to the different physical arrangement. Also, the zero reset and preset reset pushbuttons have been deleted. The functions will be controlled remotely by customer

Digital Readout Counters

17 August 1964

CTATOTUD	I believe the above information correctly indicates what is building and what John wants delivered.	
STATOTHR	The elevation was bonelessly confounded last week when	
STATOTHR	erroneously told me the opposite. He had said on August 10 that the 2-axis was being built for the	
STATOTHR	heads and the 4-axis was being built for the head. This information naturally confused	
STATOTHR	John when I reported it in my last report.	
STATOTHR STATOTHR STATOTHR	As of this morning (Monday) had not received the two data phones or the data phone data sent by John last Friday. had, however obtained the data from local rep.	
STATOTHR	cannot tell as yet what the interlock problem is. They may, however, find the answer when they get the data phones. They can undoubtedly find the problem when they phones.	x 6
STATOTHR	data phone. Sending the data phones to was a sound action in my opinion.	
	For the first 2-axis system, the counters were completed and are being checked out by The control panel is completely assembled and wired. The synchronizer wiring is nearly done and will be completed by tomorrow. Checkout of the chassis will continue through the week.	STAT
STATOTHR		I

3 August 1954

STATOTHR

In response to your request for clarification on the cable lengths required and input signals furnished for the equipment which you are now under contract to build for us, the following information is respectfully submitted:

1. For the two counter systems the following is required:

STATOTHR STATOTHR STATOTHR STATOTHR

a. The imput signal will be provided from	the
Comparator. Stiteched is a specifi	
the pulse shape as provided by	A pulse shape
sicteh idenot evenleble to me of this time.	_ However, it is
identical to the pulse which	is providing to
the other counters purchased directly from ;	you.

- b. The control panel to counter and synchronizer cable length is to be five feet.
- c. The counter to synchronizer cable length may very anywhere between two to five feet.
- d. No imput cables are required.
- e. No accessory power is required.
- 2. For the four counter system the following is required.

STATOTHR STATOTHR STATOTHR STATOTHR

a. The inp	ut signal will	. be warevide	d by a	
encoder time	ough a	olockronic	module.	This inyet
is the same	as the other			
shipped to	and addit	actual impor	metion is	available
from	spodificatio	13.2		

3 August 1964

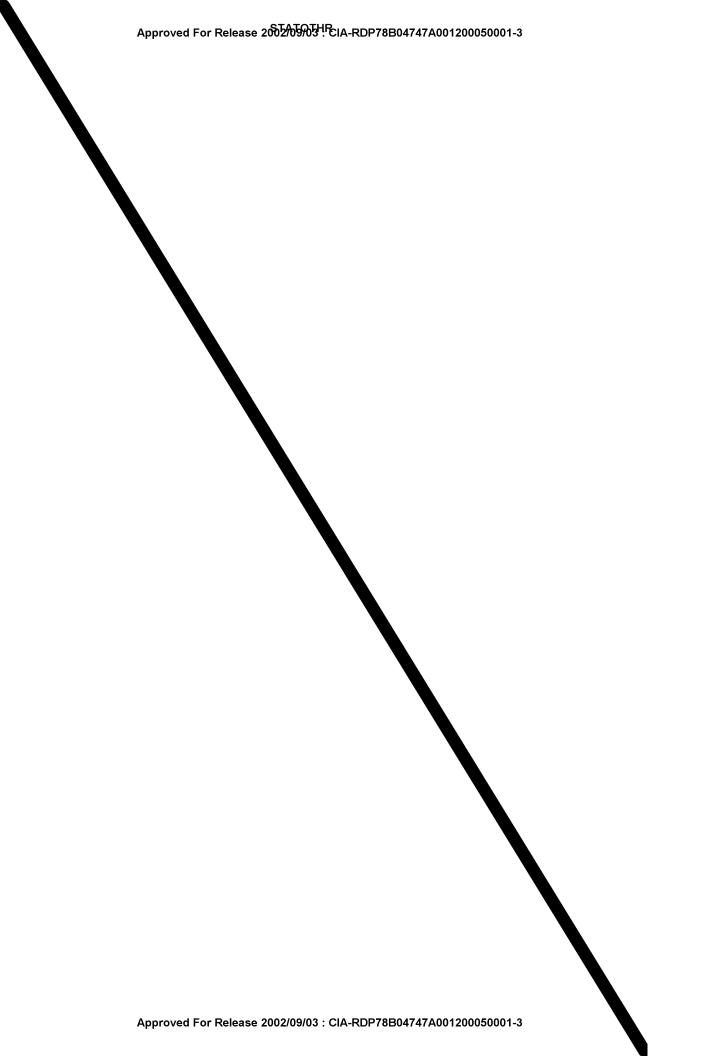
- b. The control panel to synchronizer cable length required is twenty feet.
- c. The counter to synchronizer cable length required is twenty feet for two of the counters and fifteen feet for the remaining two counters.
- d. No cables are required for the input preset, or reset functions.

If this information is not adequate please contact me as soon as possible.

Sincerely yours,

STATOTHR

JR:mb



STATOTHR

July 24, 1964

9	DIGITAL READOUT COUNTERS
TATOTHR	
TATOTHR TATOTHR TATOTHR	July 26 conferring with on the circuit
TATOTHR TATOTHR	needs some clarification of technical points which he would like in writing. He doesn't trust his memory on verbal instructions. In fact, he and now remember the previous instructions differently, and there is some confusion.
	He wants a sketch of the pulse shape they will receive from the sensing head, and he needs to know the length of the interconnecting cables. If he doesn't hear by August 1, which is Saturday, he will make the cables 10 ft long.
TATOTHR TATOTHR TATOTHR TATOTHR TATOTHR TATOTHR	the reading head. If different needs to know for each counter what signals or power that required to feed to the sensor. There is a difference in this respect between the head and the head. It turns out the information is urgently needed and is now starting to affect delivery.
TATOTHR	Delivery of the first 2-axis system has slipped a week since start of wiring has been delayed a week. does not expect delivery of the other systems to be affected. He expects check out of the first system to start the first week of August. It seems to me he is a bit optimistic to believe he can complete the second 2-axis system one week after delivery of the first 2-axis system. Delivery schedule is now:
	Three 2-axis systems: One on 8/22/64 One on 8/30/64 One on 9/15/64
	Spares for previous two 2-axis systems: 8/22/64 One 4-axis system: 10/ 1/64.
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July 10, 1964

DIGITAL KEADOUT COUNTER

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STATOTHR	has received the contrant and has started work. The	eacts for the new co	unter systems lows:
	ITEM	RECEIVED CONTRACT	SCHEDULED COMPLETION
	One 4-axis system	6/2/64	10/1/64
	Three 2-axis systems	5/20/64	1 on 8/15/64 1 on 8/30/64 1 on 9/15/64
	Spares for previous two 2-axis systems	6/10/64	8/15/64
STATOTHR STATOTHR STATOTHR	The three 2-axis systems w 2-axis system for the the 2-axis systems already mismatch with respect to requested to change their did, and supplied new boar	reading leading leadin	
STATOTHR STATOTHR STATOTHR	On the new counters now in input impedance mismatch. in detail with direction from	telephone and has	like written
STATOTHR	clarification of the input this no later than 1 Augus wants is:	impedance requireme	ents. He needs
STATOTHR	1. Define the input puls defines a count). The sensor to the input puls.	e (which is the pulsis is the pulse from ut amplifier.	se that n the
	a. Min/max voltage	level for a 0.	

	Digital Readout Counter -2-
STATOTHR	 b. Min/max voltage level for a l. c. Pulse fall time and pulse rise time. d. would prefer to have a pulse sketch which is unambiguous. Such as:
ILLEGIB	
STATOTHR STATOTHR	 Sensor source impedance. Is any accessory power to be provided to the sensor by Shall the count trigger on the negative going or positive going edge of the pulse? Interconnecting cable length required for each system. is holding off on the cables till the latter part of the manufacturing cycle, but he must start them by 1 August. If he doesn't hear by then, he plans to proceed on the basis of furnishing 10 ft long cables.
STATOTHR STATOTHR	Testing of the first 2-axis system is scheduled for the period of August 3 to August 14. I believe it would be beneficial if could schedule a visit to during the week of 10-14 August, or immediately thereafter.
STATOTHR STATOTHR STATOTHR STATOTHR STATOTHR STATOTHR STATOTHR STATOTHR	finally received cost information from his accounting department on the previous two 2-axis systems already delivered. Their cost, through G&A but not including fee. was When compared to a contract sales price of it shows a sizable loss. When heard that lost money on the job, he requested advise him how much. has not yet made any formal overtures regarding the loss. In fact, they have not decided whether or not they should.

	Digital Readout Counter	≒3 ∞
STATOTHR STATOTHR STATOTHR STATOTHR STATOTHR STATOTHR	At request of I maintenance was scheduling discuss counter electronics said that would be 0.K. but vacation schedule. If ther advise us.	he did not know
STATOTHR STATOTHR STATOTHR	input amplitier card he had	rected by adjusting the bias.
STATOTHR		

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HAS GOVERNMENT-OWNED (If yes, indicate items,	PROPERTY BEEN DEL	IVERED TO	CONTRACTO	R DURING	THIS PE	RIODI	LJ '''		"" لقا
(11 yes, Indicate Items,									
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(When Filled In) CONTRACT INSPECTION REPORT 25X1A TO: DATE 1 Oct 64 ENGINEERING SECTION/CB/PD/OL INSPECTION REPORT NO. (If final, so state) ESTIMATED COMPLETION DATE <u>30 Oct 64</u> NAME OF CONTRACTOR 25X1A TYPE OF COMMODITY OR SERVICE Chip Comparator Electronic Readout THE CONTRACTOR IS ON SCHEDULE THE CONTRACTOR WILL PROBABLY REMAIN WITHIN ALLOCATED FUNDS 29 YES NO IF ANSWER IS "NO" ADVISE RECOMMENDATION AND/OR ACTION OF SPONSORING OFFICE. ON YES X NO PER CENT OF WORK COMPLETED REVERSE HEREOF. IF KNOWN, INDICATE MAGNITUDE OF ADDI-TIONAL FUNDS INVOLVED. HAS AN INTERIM REPORT, FINAL REPORT, PROTOTYPE, OR OTHER END ITEM BEEN RECEIVED FROM THE CONTRACTOR DURING THE PERIOD? (If yes, give details on reverse side.) YES X NO HAS GOVERNMENT-OWNED PROPERTY BEEN DELIVERED TO CONTRACTOR DURING THIS PERIOD? (If yes, indicate items, quantity, and cost on reverse side.) X NO OVERALL PERFORMANCE OF CONTRACTOR OUTSTANDING ABOVE AVERAGE BELOW AVERAGE, 7. UNSATISFACTORY EXCELLENT AVERAGE BARELY ADEQUATE IF OVERALL PERFORMANCE OF CONTRACTOR IS UNSATISFACTORY OR BARELY ADEQUATE, INDICATE REASONS ON REVERSE SIDE. RECOMMENDED ACTION CONTINUE AS PROGRAMMED WITHHOLD PAYMENT PENDING SATISFACTORY PERFORMANCE TERMINATE OTHER (Specify) IF TERMINATION IS RECOMMENDED OR IF THIS IS A FINAL REPORT ATTACH COMMENTS IN NARRATIVE FORM ON CONTRACTOR'S PERFORMANCE AND CERTIFY THAT ALL DELIVERABLE ITEMS UNDER THE CONTRACT HAVE BEEN RECEIVED. THESE INCLUDE, WHERE APPLICABLE, THE FOLLOWING: ITEM DOES NOT REC'D **ITEM** DOES NOT APPLY REC'D PROTOTYPES APPLY MANUALS DRAWINGS AND SPECIFICATIONS FINAL REPORT PRODUCTION AND/OR OTHER SPECIAL TOOLING END ITEMS OTHER GOVERNMENT PROPERTY DATE OF LAST CONTACT WITH CONTRACTOR 21 Sept. 64 SIGNATURE OF INSPECTOR DIVISION P&DS INSPECTOR'S EXTENSION 25X1 Approved For Release 2002/09/03 CIA-RDP78B04747A001200050001-3 1897

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GROUP 1 Excluded from automo downgrading and

(12-36)



Taken from trip report 17-25 Sept. 1964

TATOTHR	STATOTHR STATOTHR
	On the moring of 21 Sept. and I made an inspection visit to
	to review the progress on the counter outputs
	for the Chip Comparators and Point Transfer Device. When we arrived they
	had the output synchonizer of the first unit this connects for wiring
	changes. They have done some minor redesign to improve the error and
	acknowledge circuits. In doing so they have eliminated two boards.
	After taking on a brief plant tour they had the unit reassembled
	and I observed a partial checkout of the units. Hooking the two
	Dataphones up to the unit we were able to observe the message on the remote
	Dataphones output. By disconnecting all the Dataphone ground connections
	we simulated a signal similar to that which I have observed here on the
	unit now on the third floor. When the grounds were reconnected the signal
	is considerably clearer. To complete the checkout they plans to check
	the message at the remote locator character by character. Shipment of
ı	this unit is scheduled for 2 October 1964.

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CONTRACT INSPECTION REPORT	: CNT-RDP78B04747A001200050001	I -3	
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то:	29 Aug 64		
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HAS GOVERNMENT-OWNED PROPERTY BEEN DELIVERED (If yes, indicate items, quantity, and cost on ret	verse side.)		-
2 each model Dataphone	at approximately each		
OVERALL PERFOR	RMANCE OF CONTRACTOR		
	P C DELOW AVEDAGE 7	UNSATI	SFACTOR
1. OUTSTANDING 3. ABOVE AVERAGE	- ·		
2. EXCELLENT 4. X AVERAGE	6. BARELY ADEQUATE		
IF OVERALL PERFORMANCE OF CONTRACTOR IS UNSA REVERSE SIDE.	TISFACTORY OR BARELY ADEQUATE, INDICATE	REASONS C	on
RECOM	MENDED ACTION		
X CONTINUE AS PROGRAMMED	WITHHOLD PAYMENT PENDING SATISFACTORY PERFORMANCE		
TERMINATE	OTHER (Specify)		
IF TERMINATION IS RECOMMENDED OR IF THIS IS CONTRACTOR'S PERFORMANCE AND CERTIFY THAT ALL DEL THESE'INCLUDE, WHERE APPLICABLE, THE FOLLOWING:	A FINAL REPORT ATTACH COMMENTS IN NARRA Liverable items under the contract have	TIVE FORM BEEN RECE	
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SECRET
(When Filled In)

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ENGINEERING SECTION/CB/PD/OL				INSPECTION REPORT NO. (If final, so state)			
				ESTIMATED COMPLETION DATE			
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TYPE OF	COMMODITY OR SERVICE	jî jî					
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